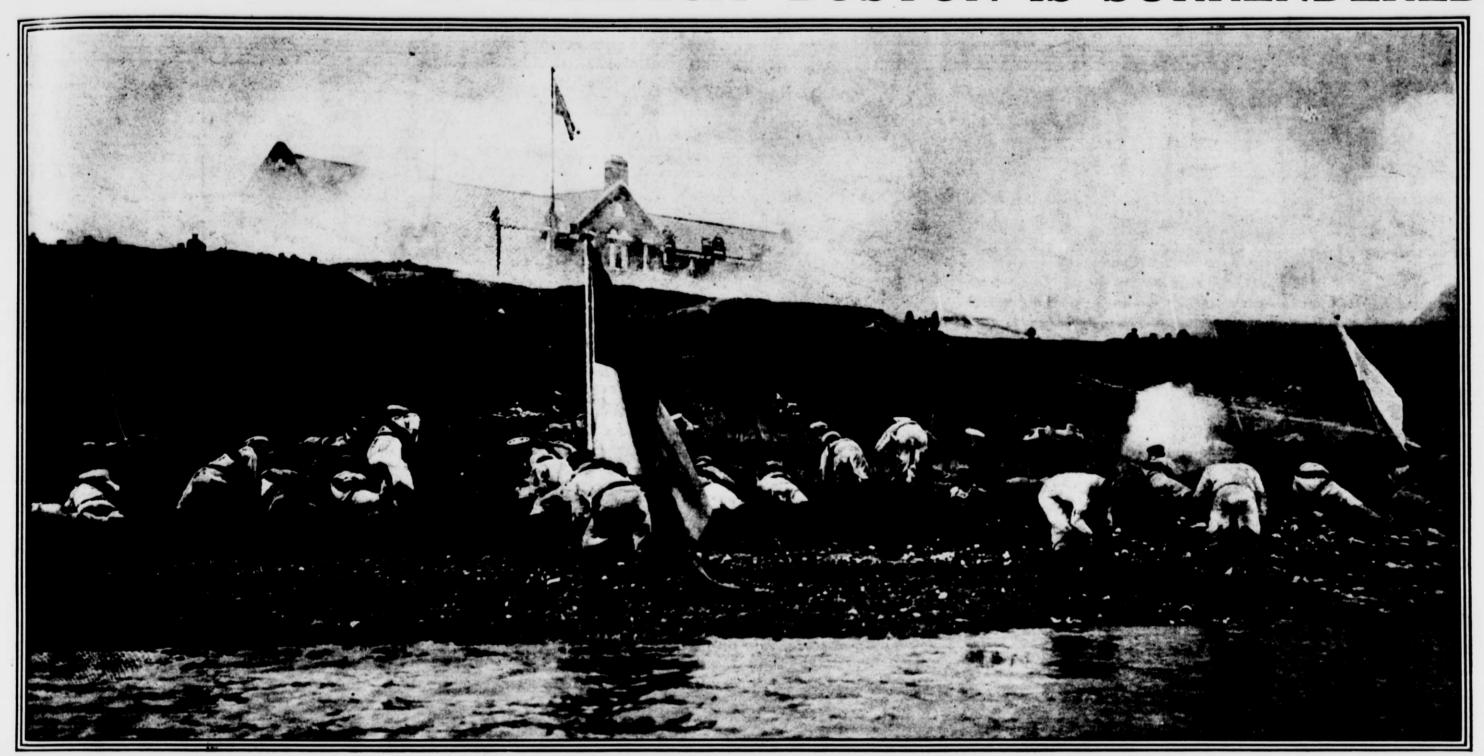
## THE INVASION OF AMERICA-BOSTON IS SURRENDERED



Undeterred, the boat parties tried to run the surf and rush the defenders

## While Coast Defences Bravely Hold Off Ships Heavy Artillery From Rear Destroys Garrisons

narrative fact story, based on the inexorable mathematics of war. What would happen if America were invaded as was Belgium.

OSTON harbor should have been impregnable to attack from the sea. Had Nature been a modern army engineer she could not have constructed an oceanic more perfectly designed for modern defence against modern ships. One might picture Boston as being protected by two great claws that curve seaward and wait there on guard, pointing toward each other, The northern claw would be Winthrop peninsula, with its beach and summer cottages. The southern one would be the long, narrow arm of land that has famous Nantasket Beach on it

and ends northward at Point Allerton. Between these two claws a prodigal hand has scattered islands. From Deer Island, lying in the north close under Winthrop, to George's Island in the south, they form a stone wall with gaps that are the channels. Far out, grouped around the portal, the sea is sown with ledges and rocks whose kelp beards stream in an ever heaving sea. Here are the Brewsters, the Devil's Back, the Graves, the Roaring

Within there is a glorious harbor great enough for a world's armada. But the entrance is a Pass of Thermopylæ.

Commanding that pass and all approaches far out to sea with zones of fire whose intersecting circles marked rings of sure destruction were defences honestly built. They were ready receive and withstand that climax of destructiveness which man's science has embodied in the conical steel proe fired from the rifled gun.1 The navy that invested the harbor

entertained no illusions on that score. It had not dared the attempt to force the passages of Narragansett. It d not dare to force the passages of Boston. As at Narragansett, its business was to occupy the defenders and wear them out, while the army fell on them and on Boston from the

ships entered a shrouded, black sea, where there was not a light to warn of reef or shoal. Lightless themthey groped with deep sea leads and sounding machines till they asthemselves of safe positions they might have sea room to swing around in great closed circles

at high speed. ese circles would cut deeply into the circles of the fire zones of the defences. At close range the vessels, invisible to the forts, could send a furious voliey into them and rush past the guns could find them, to on their circle and fire from other point. It was the penalty arkness lays on land defences. penalized the ships also 3

would have to fire without hat the American harbor defence and construction are of the very type has been acknowledged mes by the technical experts of

generous system of reliefs is imin harbor defences during war. time manauvres have developed that the mere strain of incesstchfulness while waiting for an cho may appear at unexpected suddenly is so great that unless n have frequent relief they cant that concentrated energy which led instantly in the crisis.

his system of night attack has developed and tested by actual and is such as is now laid down the practice in the tactics of most

They had prepared for their game of blind man's buff by long consultations over charts. Every ship's officer was provided with minute instructions for

orders for any one of a hundred things

that might occur, however quickly it

every contingency that human wit could forecast in the headlong game of chess that is played with cannon. The defenders were ready, too. In sighting their mark. They dared not the human chain that begins with the betray themselves to the waiting guns battle commander and reached from on land by their searchlights. him through links of district com-If the searchlights were effective, the ships should have to flee to the manders to fire commanders and battery commanders, each man had his furthest limit of the coast guns'

range. At that distance they, in turn,

could not deliver an effective bombard-

ordered by the War Department, the commander had to requisition the searchlights from other coast defences

and that during the manauvres the searchlight defence because of its inade-

quacy and temporary character failed

at several critical points, permitting at-

4,000 yards of one important battery.

session after session.

ment of the land so long as it was They knew what batteries to fire dark. So, then, all the ferocious game of war centred for the time on the and when, at the extreme fire zone, at the intermediate zone, and at the third searchlights. The death laden ships, fire zone, which commanded the mine the death laden guns on land, had to fields. They had before them, worked wait till it was learned what the lights out to the ultimate detail, the order of fire if the enemy ships should come in column, in double column, or in scatdefences had only about one-half the tered formation. Far down the searchlight installation that was beaches, north and south, they had needed. The hostile sailors had not every range plotted, that the great been forced to depend on spies for this guns might be turned on landing parinformation. It was in American reties if the secondary shore defences ports that had been made to Congress should fail to hold them.6

might come.

The ships struck simultaneously all 4. The searchlight system, recognized along the line of defences. They fired as a vital part of harbor defence by the Endicott board on harbor defence (ap-pointed in 1885) has grown steadily in importance with the steady increase in in north and south, and from battleships out at sea. A plunging fire went over Nahant and across into Winthrop. The speeding ships missed ship armament and ship speed. the defences and their bursting shells 5. The inadequacy of the installation wrecked the town instead. As its flames reddened the sky, the flames of reports. It is a fact that a few years ago, when a mock attack on one of the most important Atlantic defences was Hull, at Point Allerton on the end of the southern peninsula, made a red

> The quick searchlights caught the Again and again the white

6. Usually the firing zones are: First, 6.000 yards to the extreme range of biggest guns; second or intermediate, 3,000 yards to 6,000 yards; third, (mine field zone), 3,000 yards.

light shafts fell on veering, speeding vessels and made them hurry to get away before the fire control of the defences could cover them.

Still they returned. Each time they approached at a new point in the hope of developing a defect in the light system. Each time they fired all the metal that they could throw in the one instant before the beams fell on

There were few hits made by these running ships, but they could afford to waste ammunition, since their continual attack forced the defenders to use their own insufficient supply.

While half naked men in ships' turrets and half naked men at coast guns and in mortar pits were toiling to wreak brute destruction a game of wits was being played just as busily. This game was played not on the huge the sea was nearly futile. The shells armored ships, not in the formidable engine batteries of the forts, but at

places miles away from either. They were insignificant little places from the point of view of war-summer settlements on friendly beaches. harmless little coves, pleasant shores beset with the fantastic hotels and fantastic towers of American pleasure places. In the summer days of peace probably not one in any thousand of the happy crowds that played and laughed there ever imagined that these serene, careless places could have any importance some day in

That night they were playing a part that was full of danger to the venturesome ships. The American englneers had established portable searchlights there and made base stations and range finding points of them. Every one of these insignificant outlying points was endowing the guns in the distant defences with an added deadliness of accuracy.

The modern rifled gun is fired not

position of its target is found not by guess but by trianpulation. Far away on either side of land batteries are observers. The straight line from one to the other is the base line. As soon as they sight a ship each turns his instruments on it and gets the angle from his end of the base line. The ship to be fired at is at the apex of the triangle thus obtained.

The men at the guns get this position by telephone instantly. They know to a foot what their weapons' elevation must be with a given charge of powder and a given weight of projectile to reach that distant spot. They set their mammoth piece, elevate it above the parapet on its lift, fire it and bring it back into concealment

To bombard these base stations from that could sweep a fore shore and make it untenable for an army might never find these few scattered, concealed men or these scattered, hidden, tiny stations. A whole fleet might rave at them for hours and in vain. There was only one sure, quick way to cripple them.7

Far northward, miles outside of Bosn harbor, beyond the system of the harbor defences, two ships stood into Nahan: Bay until they were within a line drawn from Fishing Point, south of Swampscott, to Spouting Horn, on Nahant. Here in seven fathoms of

7. Estimated number of shots required from ships affoat at yards: To destroy position finding tower which is visible, 22 12 inch shells, 250 4 inch shells or 2,500 3 inch shells; to destroy invisible station without tower, destroy invisible station without tover, 400 12 inch shells, 5,000 4 inch shells; to destroy searchlight, 24 12 inch shells, 300 4 inch shells or 3,000 3 inch shells. This fact makes it feasible to protect outlying and secondary range stations outlying and secondary range stations perfectly if sufficient troops can guard by sight but by mathematics. The each station to fight off landing parties.

## With City at Enemy's Mercy and **Bombardment Imminent Stars and** Stripes Are Hauled Down

Manned by crack blue tackets whose oars were wrapped with cloth that rowlocks, the cutters moved toward the beach at Little Nahant.

Far away the harbor searchlights played like summer lightning. The sailors moved on in utter darkness, toward the invisible beach. They owed in, in irregular formation, till they could hear the surf. Then the foremost boats lay still, tossing on the swell, waiting for the others to draw abreast. Formless, vaguely gray in the night, the line made a dash.

They were on the first lifting swell of the long waves that tumble toward the land when a flerce white light tore terribly through the night, and blazed on them, and around them. It held them, intangibly, tightly, like the hand of a ghost.

Orange flashes ripped through it. Littie Nahant Beach quaked with explosion. In the white light, as if the tossing boats were spectral pictures in a dissolving view, they melted amid the roar of the shore guns. Black fragments whirled through the steady glare, and shells chopped the sea where there were bobbing heads and clutching hands.

The light stabbed the night, in and out. It veered to sea with enormous speed. A long, black silhouette with three funnels appeared full in the circle of its artificial day. A funnel vanished, and another. A spout of water lifted alongside, from a shell that had fallen short. Another, the

water they stopped and lowered their next instant, smashed into its side and made it reel.

The destroyer turned suddenly and rushed at the land. Its steering gear had been shot away. Almost instantly it straightened out again but Little it straightened out again.
Nahant was raving, Little Nahant
Nahant was raving, bause, The was flaming without pause. The searchlight held the ship. It stag-gered like a stumbling animal, pitched twice, each time a little more wildly, and went down bow first.

"Have repulsed attack on searchlight station and observers at this point," went the word from Bailey's ill on Nahant to the battle co mander in Fort Warren. "No losses. Destroyer and five ships' boats with crews completely eliminated."

They did not have time to cheer at Fort Warren. From Nantasket Beach. as far south as Nahant was north, a landing was being attempted in greater force and with the determined assistance of a destroyer division that was lying close to the beach.

Here there were three hundred men of Massachusetts Naval Militia behind barb wire and sand bag defences with two pieces of field artillery and swept by savage fire from the destroy-

"We can hold the ships' boats off. Surf high and landing will be slow," they reported to the battle commander by field telegraph. "But we must have relief from naval fire or cannot concentrate efforts on landing parties."

Their officers sent the exact distance of the destroyers from the beach. the forts the fire commanders studied their charts, plotted with diagrams of the shore in sections. They calculated the range. A dropping shot from a 6 inch gun fell among the enemy vessels one minute later. The next went over. The third struck a destroyer. Before it disappeared shells were falling among the division too fast to count. Three guns were firing. They were throwing twelve shells in one

Two destroyers were towed away crippled. Another escaped from the

fire zone but sank at sea. Undeterred, the boat parties tried to run the surf and rush the defenders. But the sea was heavy, breaking with a sharp overfall. Unprotected by fire from the sea, unable to work their own machine guns in the rough ( water, the sailors were pounded in the breakers. The field artillery blew their boats apart. The machine guns slashed them. Rifle fire hammered.

"Attack beaten off," reported the militiamen. In the surf there were a few drifting pieces of wood, tossing oars and bodies pitching to and fro as the undertow played with them.

"Destroyer division off this point." It was a report from Strawberry Hill, south from Fort Revere.

Point Allerton's searchlight swung down the beach, the searchlight from Strawberry Hill centred on them. The reckless craft, the hussars of the sea, dashed in to a 400 yard range, and steaming parallel with the beach at full speed sent in a heavy broadside fire from all their guns. More than three hundred shells were directed against the Strawberry Hill light in those few minutes. They swung and fled to the sea as the batteries of the fort opened on them.9

8. Actual records of American harbor appearing carriages, fifteen shots in 1

3. Fram an actual manager per-formed successfully by a destroyer di-vision attempting to destroy a base station during a mock buttle on the At-lantic coast.

Continued on Sixth Page



Three hundred men of Massachusetts Naval Militia behind barb wire and sand bag defences.

Photo-Brown Bros.